

What Is Claimed Is

1. A prosthetic acetabular component for a
prosthetic total hip joint, said component comprising
two constructs, one being a metal base construct that
engages the bone and the other being a polyethylene
bearing construct that attaches to the metal base
construct and articulates with a prosthetic femoral
stem component on the opposing side of the joint,
where said metal base construct is composed of two
different metals, a first metal which engages the bone
surface and a second metal which engages the
polyethylene bearing construct, with the first metal
being selected so as to provide a superior
bone-engaging face, and the second metal being
selected so as to provide a superior polyethylene-
engaging face.

2. A prosthetic acetabular component according
to claim 1 wherein said first metal comprises
titanium.

3. A prosthetic acetabular component according to claim 1 wherein said first metal comprises a titanium alloy.

5

4. A prosthetic acetabular component according to claim 1 wherein said first metal comprises tantalum.

5. A prosthetic acetabular component according to claim 1 wherein said first metal comprises a tantalum alloy.

6. A prosthetic acetabular component according to claim 1 wherein said first metal comprises a material which is highly biocompatible and which exhibits good bone ingrowth properties.

7. A prosthetic acetabular component according to claim 1 wherein said second metal comprises CoCrMo.

8. A prosthetic acetabular component according to claim 1 wherein said second metal comprises a cobalt based alloy.

5 9. A prosthetic acetabular component according to claim 1 wherein said second metal comprises a stainless steel.

10 10. A prosthetic acetabular component according to claim 1 wherein said second metal comprises a zirconium based alloy.

15 11. A prosthetic acetabular component according to claim 1 wherein said second metal comprises a material which has relatively high hardness and which is scratch resistant.